Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 1 of 33

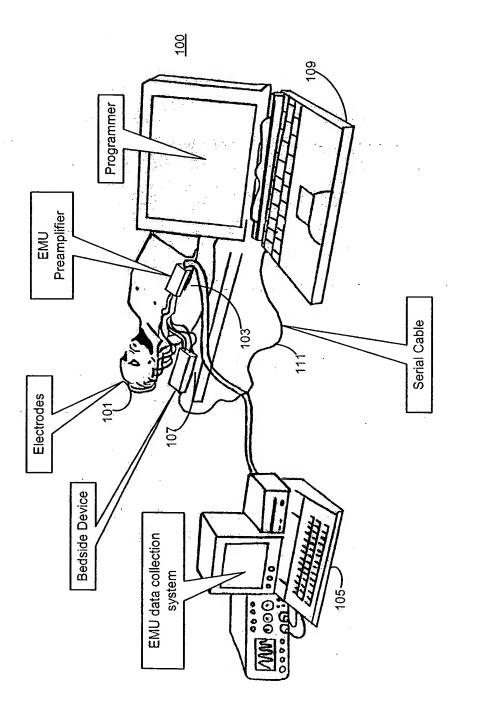


FIG. 1 (CR-ECS configuration)

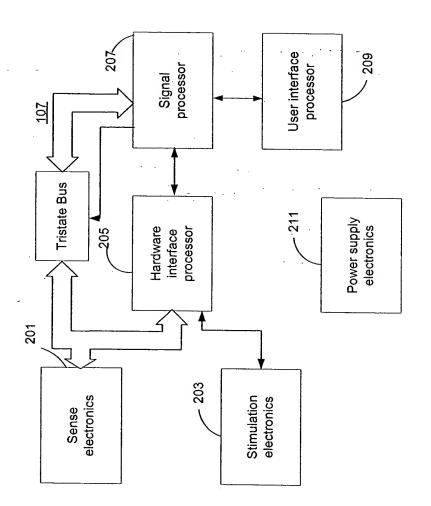
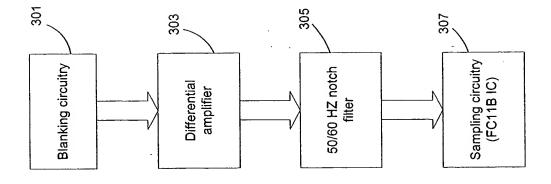
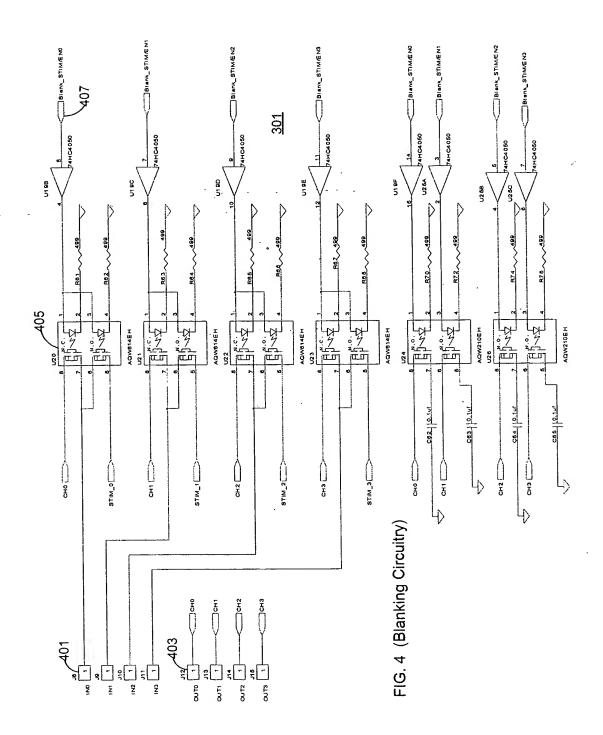


FIG. 2 (Bedside device configuration)

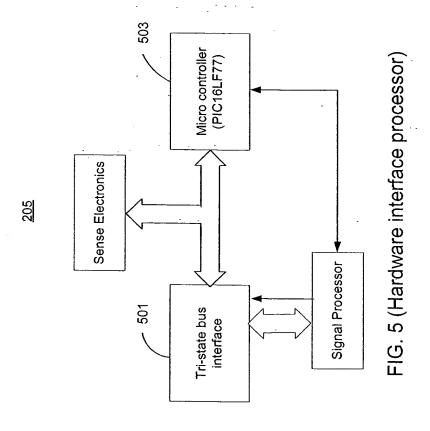
FIG. 3 Sense electronics configuration





Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 5 of 33

1 (



Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 6 of 33

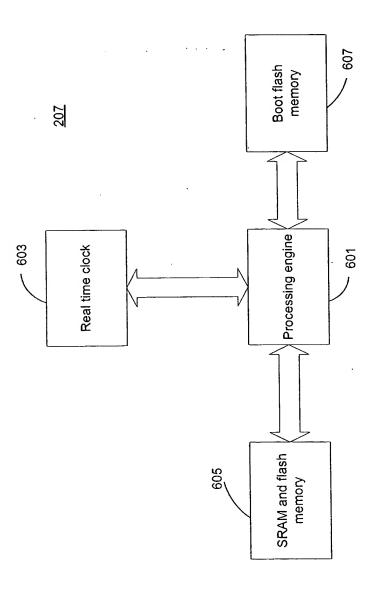


FIG. 6 (Signal processor)

Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 7 of 33

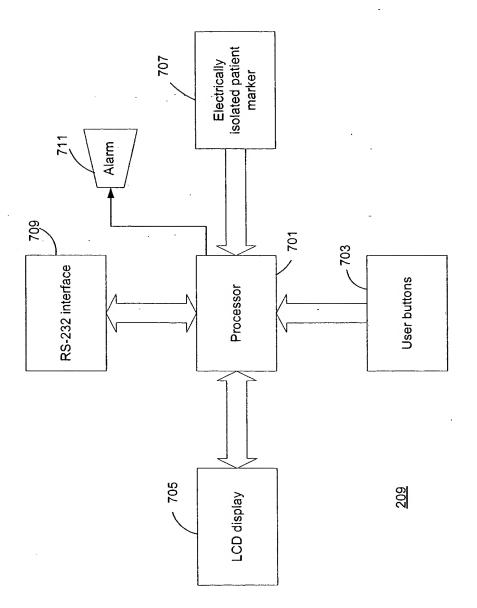


FIG. 7 (User interface processor)

Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 8 of 33

, f

. .

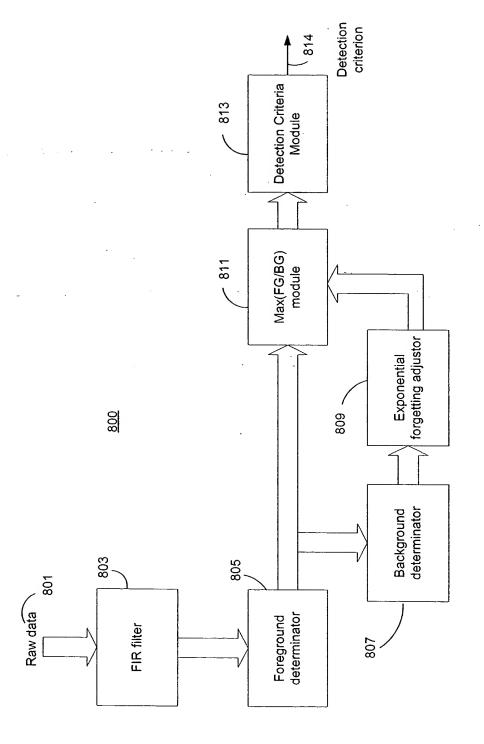
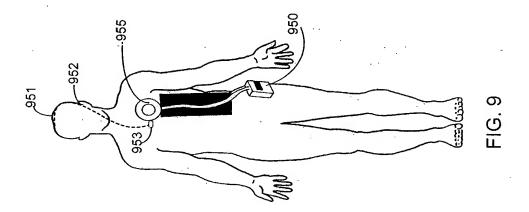


FIG. 8 (Seizure detection algorithm)

Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 9 of 33



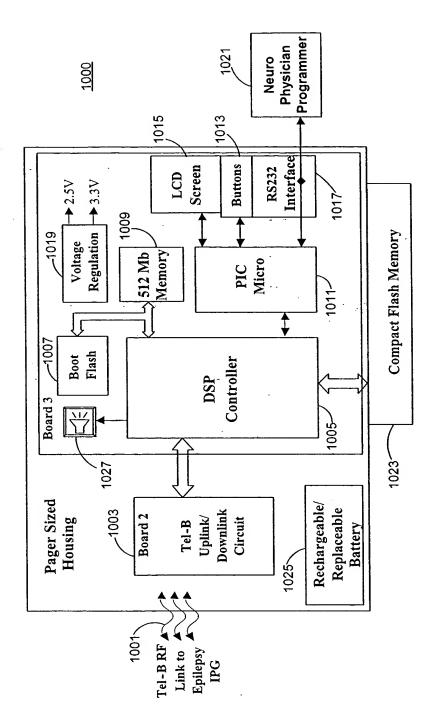


FIG. 10 (Epilepsy external device diagram)

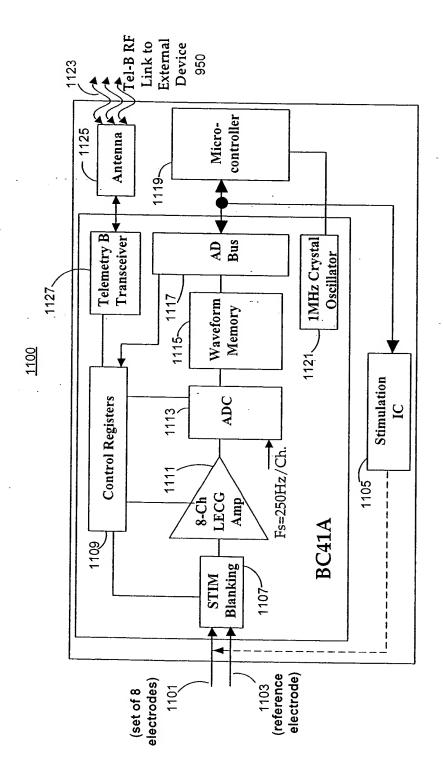
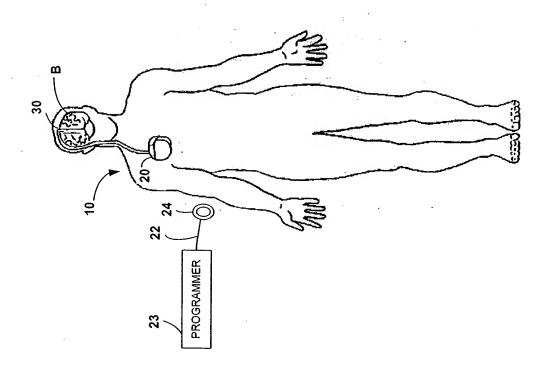


FIG. 11 (Epilepsy implantable device diagram)

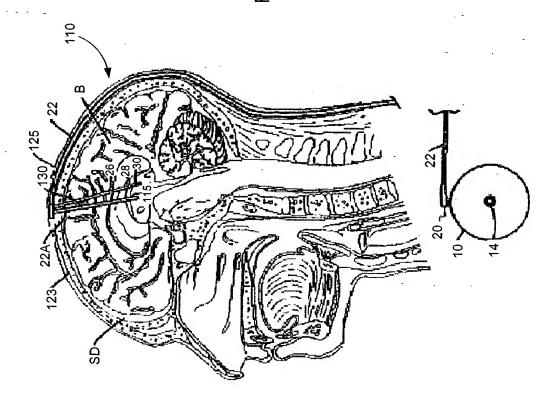
Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 12 of 33

FIG. 12

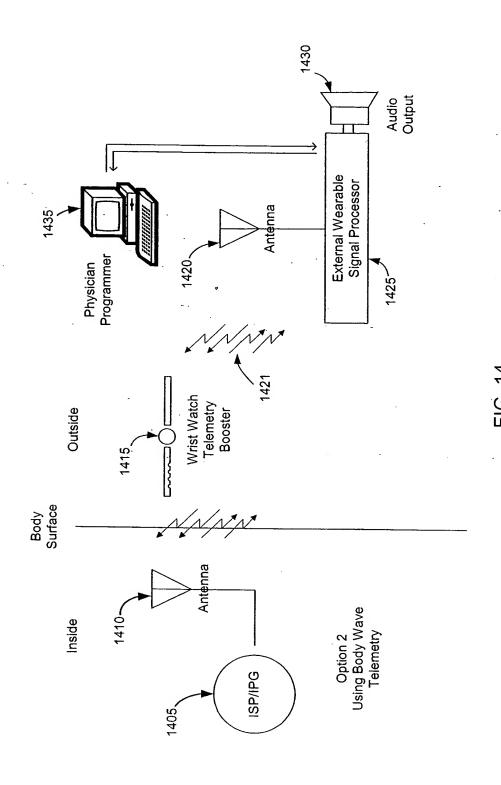


Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 13 of 33

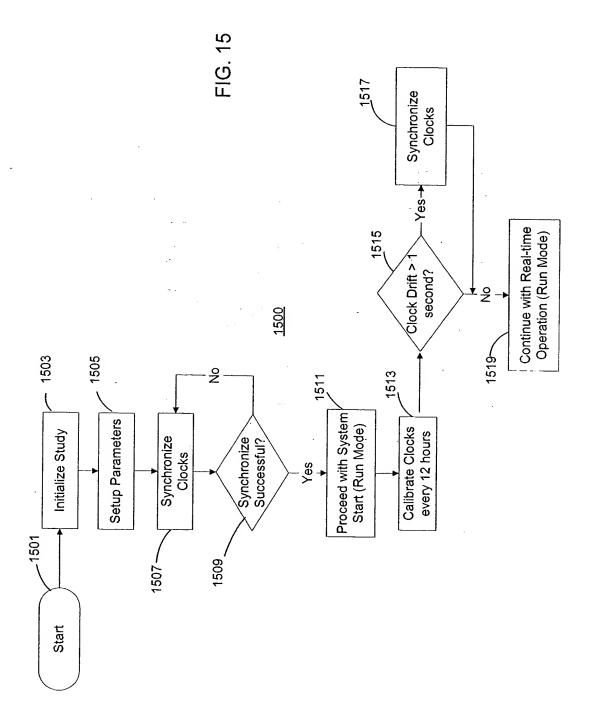
FIG. 13



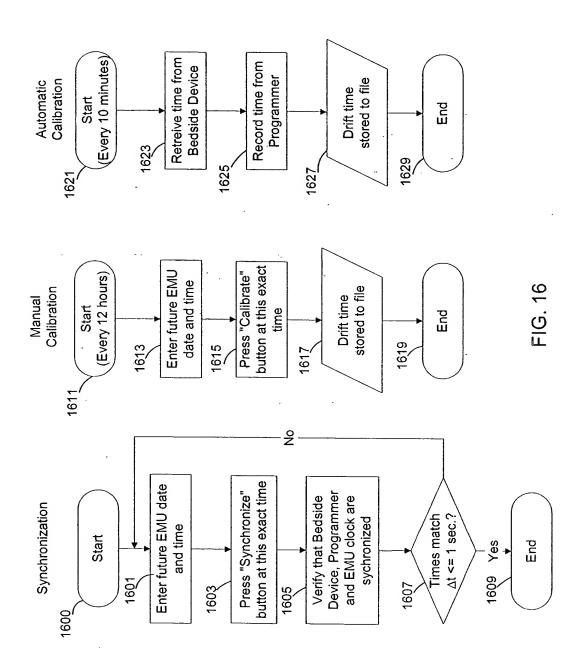
Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 14 of 33

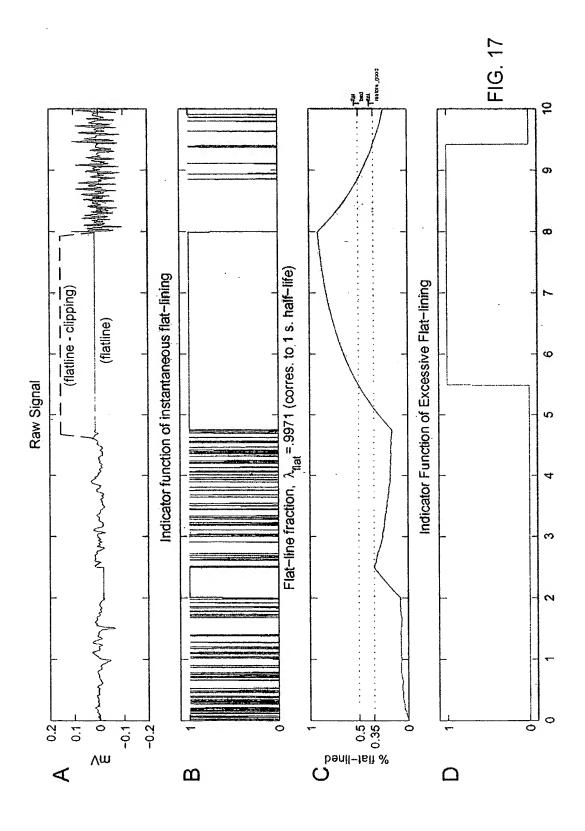


Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 15 of 33

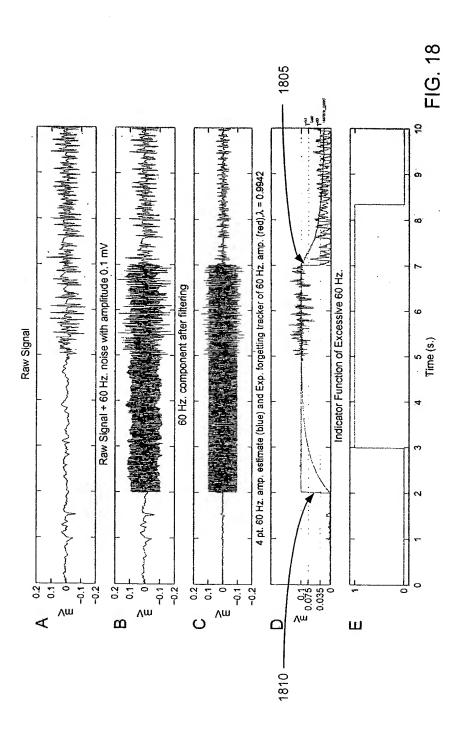


Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 16 of 33





Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 18 of 33



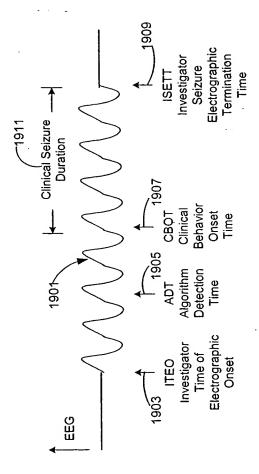
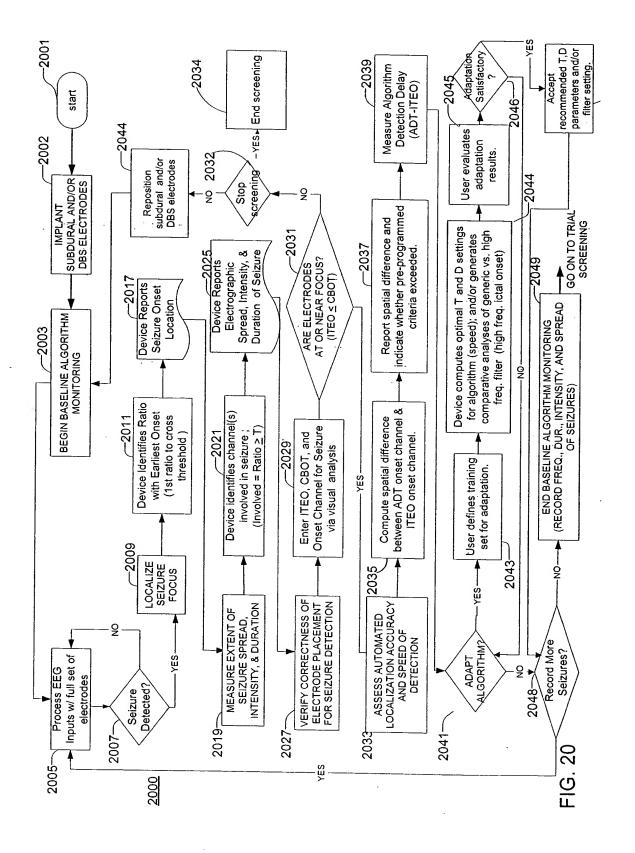
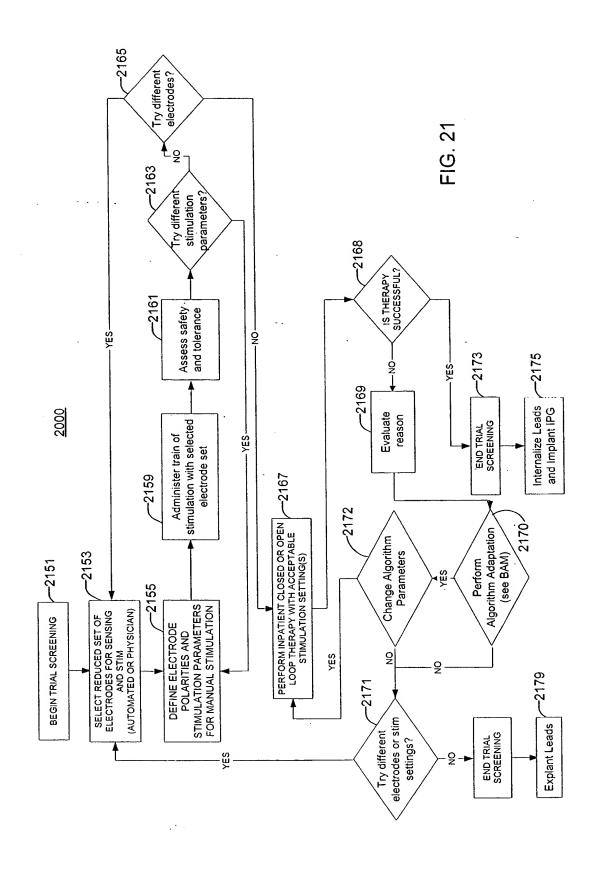


FIG. 19

Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 20 of 33



Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 21 of 33



Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al.

Sheet 22 of 33

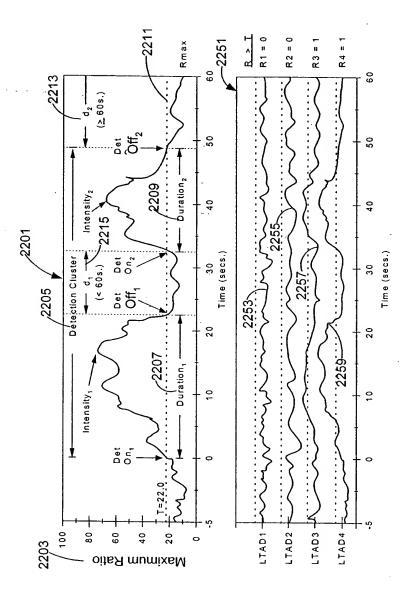
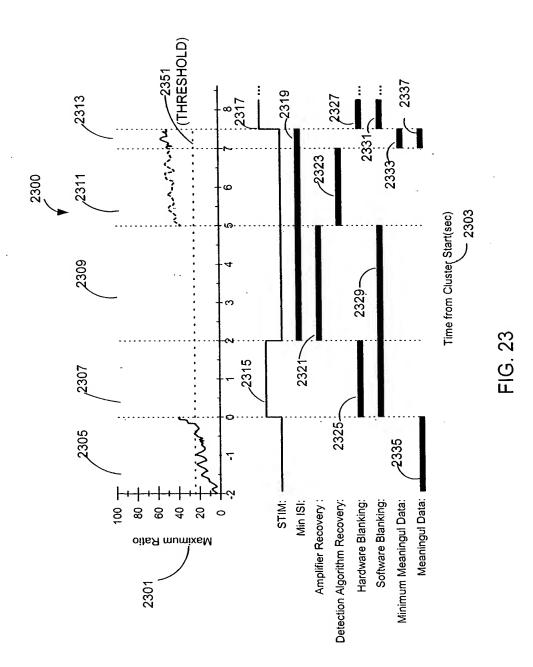


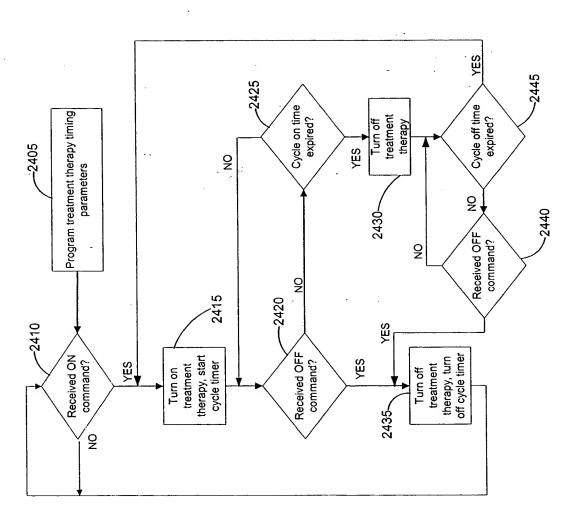
FIG. 22 (Clustering)

Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 23 of 33

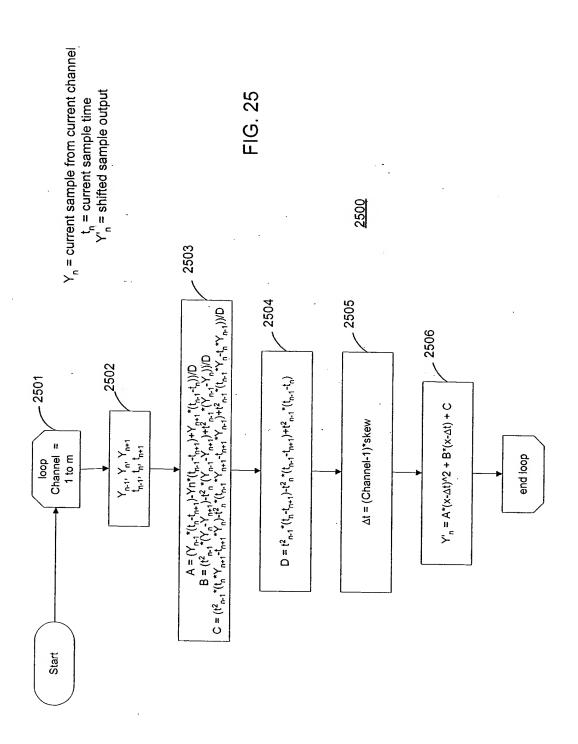


Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 24 of 33

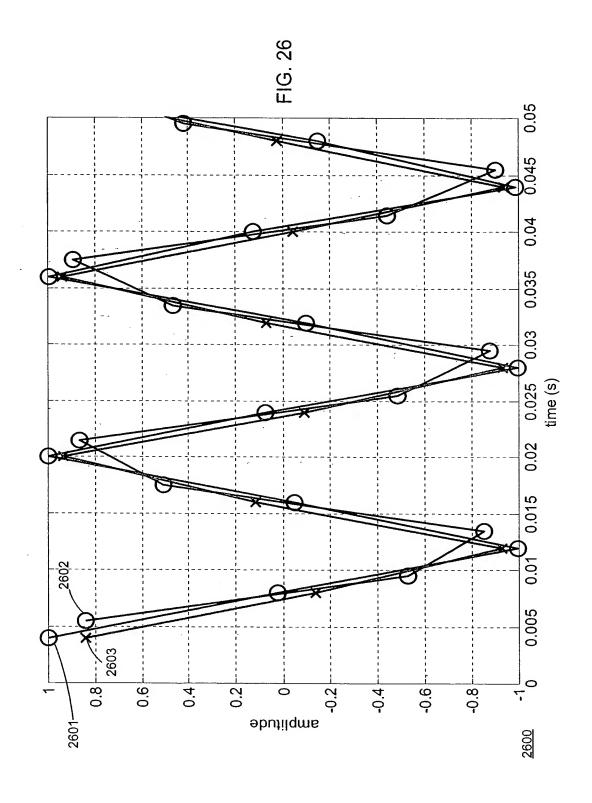
FIG. 24

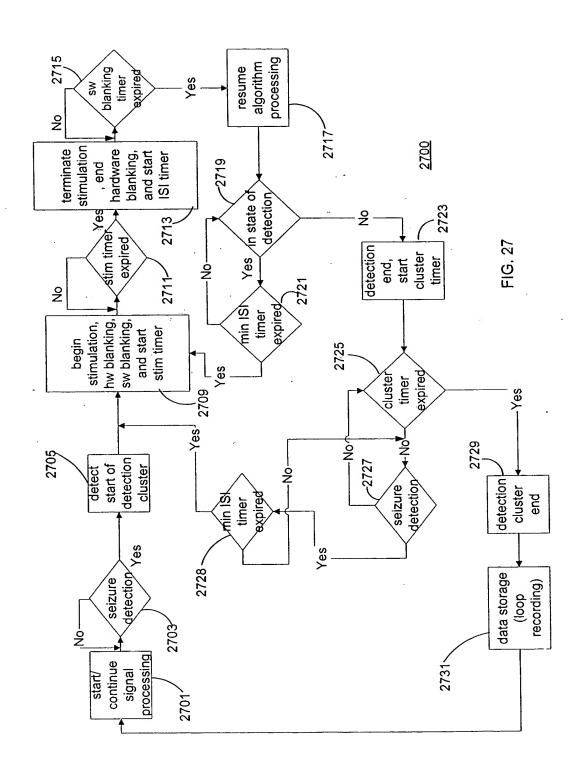


Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 25 of 33

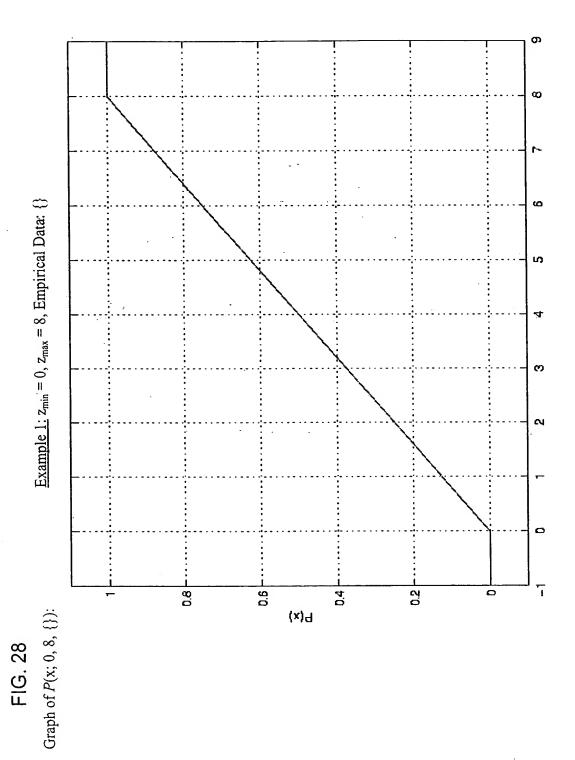


Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 26 of 33

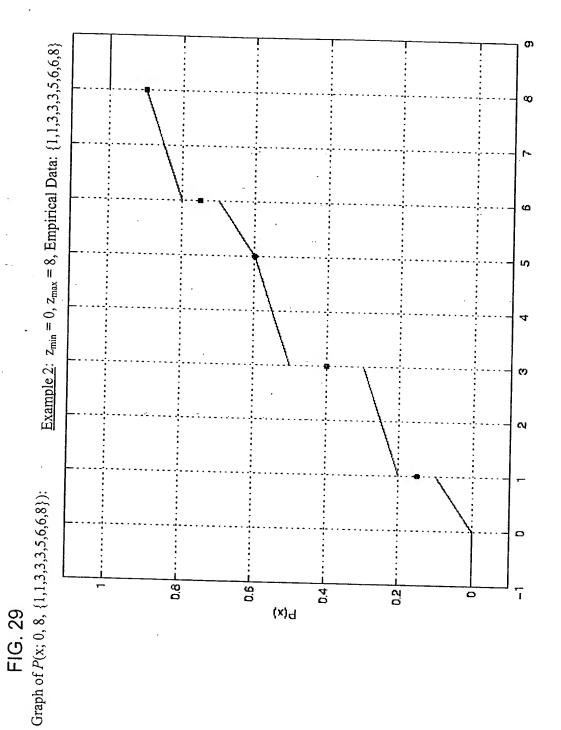




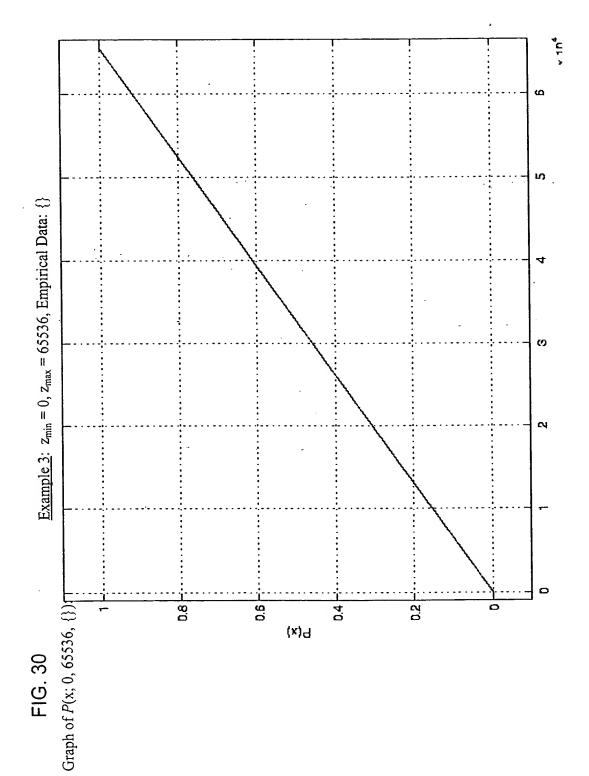
Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 28 of 33



Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 29 of 33

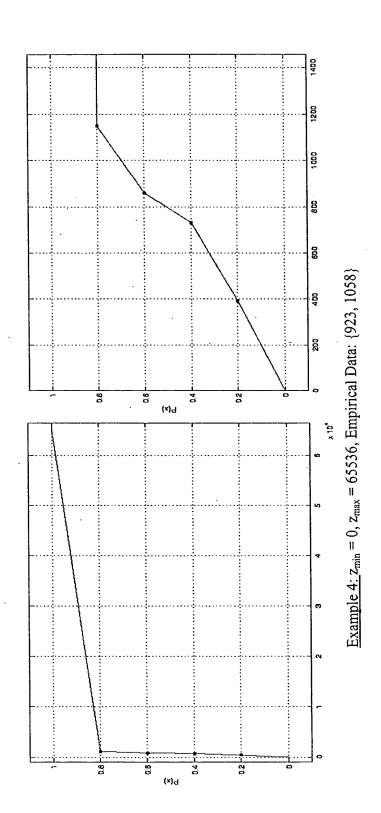


Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 30 of 33



Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 31 of 33

Graph of  $P(x; 0, 65536, \{\text{round}([35.2, 41.3, 18.9, 55.1]*(250/12))\}) = P(x; 0, 65536, \{394, 733, 860, 1148\})$ 



Banner & Witcoff, Ltd. Binal J. Patel – 312.463.5000 Attorney Docket 11738.00134 Inventors: Osorio et al. Sheet 32 of 33

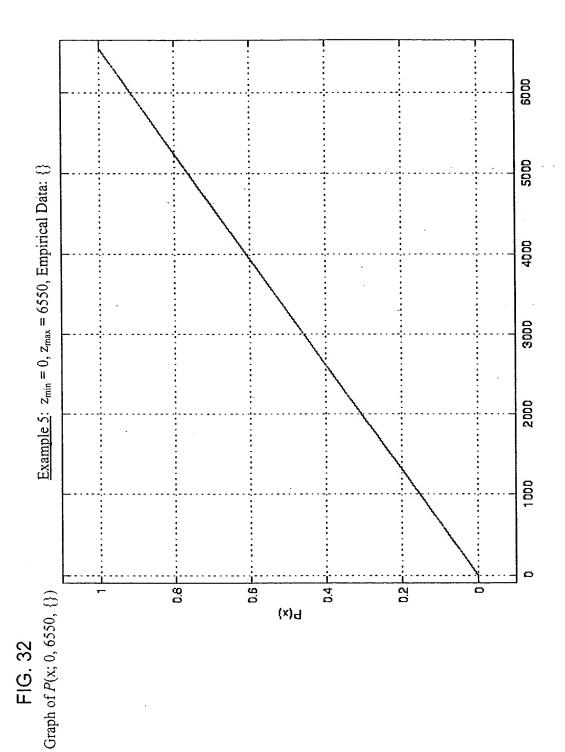


FIG. 32

Banner & Witcoff, Ltd.
Binal J. Patel – 312.463.5000
Attorney Docket 11738.00134
Inventors: Osorio et al.
Sheet 33 of 33

FIG. 33
Graph of *P*(x; 0, 6550, {34.7, 103.1, 115.6, 189.9})

